

	Hits	Search Text	Time Stamp
1	3	automatic\$5 near5 activat\$5 near5 applet\$1	2001/01/26 08:58
2	233	automatic\$5 near5 activat\$5 near5 program\$1	2001/01/26 09:05
3	107	(automatic\$5 near5 activat\$5 near5 program\$1) and network\$1	2001/01/26 09:06
4	34	((automatic\$5 near5 activat\$5 near5 program\$1) and network\$1) and download\$3	2001/01/26 09:06
5	1054	plug\$3 adj5 play\$3	2001/01/26 09:31
6	117	download\$3 adj5 activat\$4	2001/01/26 09:32

USPT

US-PAT-NO: 5119489

DOCUMENT-IDENTIFIER: US 5119489 A

TITLE: Method of monitoring the bring up of all units in a multiple system  
from a remote unit including diagnostic testing with visual indicator  
illumination indicating operability

DATE-ISSUED: June 2, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
------	------	-------	----------	---------

Bond; Arthur L.	Raleigh	NC	N/A	N/A
-----------------	---------	----	-----	-----

Hughes; David R.	Raleigh	NC	N/A	N/A
------------------	---------	----	-----	-----

Posey; Hollis P.	Cary	NC	N/A	N/A
------------------	------	----	-----	-----

Wiencken, Jr.; Arthur	Raleigh	NC	N/A	N/A
-----------------------	---------	----	-----	-----

M.

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
------	------	-------	----------	---------	-----------

International Business	Armonk	NY	N/A	N/A	02
------------------------	--------	----	-----	-----	----

Machines Corporation

APPL-NO: 7/ 134556

DATE FILED: December 15, 1987

PARENT-CASE:

This is a continuation of co-pending U.S. application Ser. No. 06/782,799  
filed Oct. 2, 1985, now abandoned.

INT-CL: [5] G06F011/22

US-CL-ISSUED: 395/575,364/267.7 ,371/29.1

US-CL-CURRENT: 714/46

FIELD-OF-SEARCH: 371/29;371/29.1 ;364/2MSFile ;364/141 ;340/825.17

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3529293</u>	September 1970	Sullivan et al.	340/825.17
<u>3634824</u>	January 1972	Zinn	340/825.17
<u>3659273</u>	April 1972	Knauft et al.	371/29
<u>4204249</u>	May 1980	Dye et al.	364/200
<u>4251858</u>	February 1981	Cambigue et al.	340/825.17
<u>4424576</u>	January 1984	Lange	364/900
<u>4495568</u>	January 1985	Gilbert et al.	364/200
<u>4519025</u>	May 1985	Fayette	364/141
<u>4521885</u>	June 1985	Melock et al.	371/29
<u>4628478</u>	December 1986	Henderson	364/900
<u>4633469</u>	April 1984	Kishi	371/29
<u>4695946</u>	September 1987	Andereasen et al.	364/200

FOREIGN PATENT DOCUMENTS

COUNTRY	FOREIGN-PAT-NO	PUBN-DATE	US-CL
JP	0181757	March 1983	340/825.17
JP	0164264	September 1985	340/825.07
WO	8400651	February 1984	340/825.07

ART-UNIT: 238

PRIMARY-EXAMINER: Anderson; Lawrence E.

ATTY-AGENT-FIRM: Cockburn; Joscelyn G.

ABSTRACT:

A procedure for bringing-up and/or establishing the operability of a  
distributive data processing system comprises the steps of providing, at each  
terminal of said system, a display having a plurality of individually  
activatable indicators and/or indicia configured in a predetermined geometrical  
pattern with the position in the pattern and the electrical state of each

indicator being representative of the operational readiness of an assigned terminal; running a series of operational tests in each terminal and selectively enabling the indicator and/or displaying an alphanumeric character representing said terminal on the successful completion of the operability tests.

7 Claims, 11 Drawing figures

BSPR:

One feature of the invention informs a user when software products are successfully downloaded into lower order devices. To facilitate this feature indicators are placed at higher order positions of the indicating zone. As a downloading event is concluded a corresponding indicia is activated. Failure to activate an assigned digit and/or indicator indicates that the assigned routine has failed and/or the assigned device is non-operational.

USPT

US-PAT-NO: 4935870

DOCUMENT-IDENTIFIER: US 4935870 A

TITLE: Apparatus for downloading macro programs and executing a downloaded macro program responding to activation of a single key

DATE-ISSUED: June 19, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burk, Jr.; J. Robert	Carpentersville	IL	N/A	N/A
Fries; Christopher	Crystal Lake	IL	N/A	N/A
Winter; Peter M.	Elk Grove	IL	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Keycom Electronic Publishing	Chicago	IL	N/A	N/A	02

APPL-NO: 7/ 227792

DATE FILED: August 3, 1988

PARENT-CASE:

This is a continuation, of application Ser. No. 06/942,095, filed on Dec. 15, 1986, now abandoned, which was a continuation of prior application Ser. No. 06/545/128, filed on Oct. 25, 1983, now abandoned.

INT-CL: [5] G06F015/00,G06F013/00

US-CL-ISSUED: 364/200,364/234.2 ,364/234.3 ,364/238.1 ,364/286

US-CL-CURRENT: 709/203,709/218 ,709/227

FIELD-OF-SEARCH: 364/200;364/900 ;370/58 ;340/365VL ;340/712

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3653001</u>	March 1972	Ninke	364/200
<u>4204206</u>	May 1980	Bakula et al.	364/900
<u>4266271</u>	May 1981	Chamoff et al.	364/900
<u>4414624</u>	November 1983	Summer, Jr. et al.	364/200
<u>4425627</u>	January 1984	Eibner	364/900
<u>4442502</u>	April 1984	Friend et al.	364/900
<u>4481574</u>	November 1984	DeFino et al.	364/200
<u>4547851</u>	October 1985	Kurland	N/A
<u>4597058</u>	June 1986	Wain	364/900

ART-UNIT: 232

PRIMARY-EXAMINER: Lee; Thomas C.

ATTY-AGENT-FIRM: Kleinke; Bernard L. Waters; William Patrick Potts; Jerry R.

ABSTRACT:

Apparatus for downloading videotex information via a host computer includes a group of local terminals installed at a variety of locations. The terminals receive and store macro programs from the host computer. The local terminal then activates the macro programs via a set of function input devices, which generate macro program activating signals.

5 Claims, 12 Drawing figures

TTL:

Apparatus for downloading macro programs and executing a downloaded macro program responding to activation of a single key

DEPR:

Telesoftware is downloaded and activated by session commands. Telesoftware can drive the display by passing PLPS data into the PLPS firmware or by storing directly into video memory and the color map memory. After a host disconnect

function is requested by telesoftware, the terminal permits telesoftware to continue in operation.

USPT

US-PAT-NO: 4747127

DOCUMENT-IDENTIFIER: US 4747127 A

TITLE: Customer programmable real-time system

DATE-ISSUED: May 24, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Terris L.	Aurora	IL	N/A	N/A
Hyatt; Wayne E.	Glenview	IL	N/A	N/A
Kimminau; Deborah D.	Aurora	IL	N/A	N/A
Leung; Wu-Hon F.	Downers Grove	IL	N/A	N/A
Morgan; Todd C.	Oak Park	IL	N/A	N/A
Zislis; Paul M.	Northbrook	IL	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
American Telephone and Telegraph Company, AT&T	Murray Hill	NJ	N/A	N/A	02

Bell Laboratories

APPL-NO: 6/ 812941

DATE FILED: December 23, 1985

INT-CL: [4] H04M011/00

US-CL-ISSUED: 379/94,379/93,364/200

US-CL-CURRENT: 379/93.14,379/201,379/914,379/93.09

FIELD-OF-SEARCH: 379/94;379/90;379/93;379/96;379/97;379/98;364/200

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3972023</u>	July 1976	Bodner et al.	364/200
<u>3984817</u>	October 1976	Barbour et al.	364/200
<u>4133030</u>	January 1976	Huetner et al.	364/200
<u>4291200</u>	September 1981	Smith	379/94
<u>4447874</u>	May 1984	Bradley et al.	364/200
<u>4551581</u>	November 1985	Doughty	379/94
<u>4626634</u>	December 1986	Brahm et al.	379/94
<u>4653085</u>	March 1987	Chan et al.	379/94

ART-UNIT: 261

PRIMARY-EXAMINER: Ng; Jin F.

ASSISTANT-EXAMINER: Connors; Mathew E.

ATTY-AGENT-FIRM: Moran; John C.

ABSTRACT:

A telecommunication and development system for the switching of voice and data under computer control in a customer programmable environment that allows real-time modification of communication services. The computer program controlling the system is written in a nonprocedural language that allows for the direct control of the telecommunication system on the basis of state definition, event definition, and action definition. Program scripts define a particular feature, and each script consists of a plurality of triples that automatically respond to the system state and signal information to execute the necessary actions to provide part of a feature to the telecommunication system. During provision of telecommunication services, a customer can add new features that not only add new operations to the system, but modify existing operations without interfering with the present operation of the system. This is possible since the nonprocedural language allows for the direct control of interaction between features and provides for the automatic execution of required operations during state transitions. In addition, the nonprocedural language allows a feature or script to control its own deactivation or activation. Also, the software development environment is based on a standard operating

system allowing for ease of development. The above features allow a customer to program his or her own individual communication unit to provide desired features without affecting the operation of the telecommunication system or the features provided to other customers.

36 Claims, 41 Drawing figures

DEPR:

The compiled code that is downloaded as illustrated in FIG. 8 is stored, upon activation, in logical signal tables such as illustrated in FIGS. 6 and 7. The latter tables relate all signals with the state in which each signal can occur. After the downloading has occurred, the customer can manually activate the new service by the execution of the activation command or it can be done automatically by other code, such as the code illustrated for the activation of the call forwarding feature in FIG. 5.

DEPR:

Turning now to the invention, a script for implementing the transitions from the various states illustrated in FIG. 2 is illustrated in FIGS. 3 and 4. The script implements plain old telephone (POT) service or basic telephone service in terms of triples. The latter, once compiled, is stored in memory 108 and executed by processor 107. More details of the language utilized in FIGS. 3 and 4 is given in Appendix A. One skilled in the art can observe from FIGS. 3 and 4 that there is no requirement for ordering the triples. The order of execution is explicitly designated by state and event information and an interscript control mechanism that is implemented during the downloading and activation of the scripts and during execution of the triples.

DEPR:

As is described later, when the compiled scripts are downloaded, the activation operation performed in computer 104 establishes the following precedence among the scripts: CFA, CPI, and CF with the CFA script having the highest precedence. In addition, the CFA, CPI, and CF scripts could be compiled at a latter point in time and downloaded. A program in computer 104 is responsive to the compiled triples of these scripts to store these triples as logically illustrated in FIG. 6 for idle, ringing, and talking states, and to provide a method for executing these triples. The triples associated with the other states would be similarly stored. The triples are grouped by their event definitions for each state.

DEPR:

The program illustrated in flowchart form in FIG. 9 is responsive to the downloaded script illustrated in FIG. 8 to update the structures and tables illustrated in FIGS. 11, 12, and 13. Block 901 determines whether the new script is already present in memory 108. If the script is present, the old script is deactivated and deleted before block 904 is executed. The latter block adds a new structure into the SCRIPTS table to make room for the new script. Blocks 906 and 908 update the literal and variable tables such as literal table 2204, local variable table 2201, and global variable table 2202, respectively. Block 910 performs the necessary initialization with respect to a triples table such as 2204. Decision block 911 determines whether the existing script had been active when the new script was downloaded, and if it was, the new script is activated by passing control to block 912.